

Search history

Search PN=(WO2017103709) (Results 1)

1:

Search [SP]: 1. an apparatus (1) for making a beverage, in particular a beverage containing milk, the apparatus (1) comprising a machine body, a milk container (2), a milk frothing device (3) designed to mix milk with air and steam to obtain frothed milk, the machine body housing a boiler for producing steam, an outer wall (11) of the machine body being provided with a seat (10) for receiving the milk frothing device (3), the milk frothing device (3) being removably mountable in said seat (10), in the mounted condition the milk frothing device (3) being in communication with the boiler to receive steam, the milk container (2) being removably couplable to the milk frothing device (3), in the coupled condition the milk frothing device (3) being in communication with the milk container (2) to receive milk, the apparatus (1) comprising a locking member (5) for locking the milk frothing device (3) in the mounted condition, the locking member (5) being able to adopt an active condition, in which the locking member (5) constrains the milk frothing device (3) to the machine body and prevents removal of the milk frothing device (3) from the seat (10), and an inactive condition, in which the locking member (5) releases the milk frothing device (3) to allow removal of the milk frothing device (3) from the seat (10), the milk container (2) interacting with the locking member (5) in such a way that, when the milk container (2) is coupled to the milk frothing device (3) in the mounted condition, the locking member (5) is kept in the active condition, and in such a way that, when the milk container (2) is uncoupled from the milk frothing device (3), the locking member (5) may adopt the inactive condition, whereby the milk frothing device (3) and the milk container (2) in the coupled condition are not simultaneously removable from the machine body. 2. the apparatus (1) according to claim 1, comprising a return system (365) which, when the milk container (2) is uncoupled from the milk frothing device (3), is designed to automatically return the locking member (5) to the inactive condition. 3. the apparatus (1) according to claim 1, wherein the locking member (5) is shiftable between a first position corresponding to the active condition and a second position corresponding to the inactive condition. 4. the apparatus (1) according to claim 3, wherein the locking member (5) is mounted on one of either the milk frothing device (3) or the machine body, the locking member (5) comprising a tooth (51) that is intended to hook a contact element (13) present on the other of either the milk frothing device (3) or the machine body, the first position corresponding to a hooking between the tooth (51) and the contact element (13), the second position corresponding to an unhooking of the tooth (51) from the contact element (13). 5. the apparatus (1) according to claim 4, the contact element (13) comprising an edge of a slit or slot (14) in which the tooth (51) is inserted when the milk frothing device (3) is in the mounted condition. 6. the apparatus (1) according to claim 3, wherein the shifting of the locking member (5) between the first position and the second position is an angular shifting or a translation. 7. the apparatus (1) according to claim 3, the milk container (2) and the milk frothing device (3) being couplable by a sliding movement of one relative to the other, the milk container (2) being designed to force the locking member (5) towards the first position in a stretch of said sliding movement. 8. the apparatus (1) according to claim 1, wherein, in the coupled condition, the milk frothing device (3) is at the top of the milk container (2) and is positioned above a cover (23) of the milk container (2). 9. the apparatus (1) according to claim 1, wherein, when the milk frothing device (3) is mounted on the machine body, the milk container (2) is couplable to, or uncouplable from, the milk frothing device (3) with a substantially horizontal translating movement. 10. the apparatus (1) according to claim 1, wherein the milk frothing device (3) comprises a manifold (41) having a frothing chamber (40) that is connected to an air infeed duct (48), to a milk infeed duct (45) and to a nozzle (42) for the steam, wherein, in the mounted and coupled condition, the milk infeed duct (45) is in communication with the milk container (2) and the nozzle (42) is in communication with the boiler, whereby, in use, a flow of steam in the nozzle (42) creates a pressure drop that sucks milk and air into the frothing chamber (40), thereby obtaining mixing of milk with air and steam. 11. the apparatus (1) according to claim 1, wherein the milk frothing device (3) comprises a dispensing spout (33) for dispensing frothed milk. 12. the apparatus (1) according to claim 1, wherein the machine body also houses an infusion chamber for making a second beverage, in particular for making coffee, the apparatus comprising a respective dispensing spout for dispensing said second beverage. 13. the apparatus (1) according to claim 2, wherein the locking member (5) is shiftable between a first position corresponding to the active condition and a second position corresponding to the inactive condition. 14. the apparatus (1) according to claim 13, wherein the locking member (5) is mounted on one of either the milk frothing device (3) or the machine body, the locking member (5) comprising a tooth (51) that is intended to hook a contact element (13) present on the other of either the milk frothing device (3) or the machine body, the first position corresponding to a hooking between the tooth (51) and the contact element (13), the second position corresponding to an unhooking of the tooth (51) from the contact element (13). 15. the apparatus (1) according to claim 13, the milk container (2) and the milk frothing device (3) being couplable by a sliding movement of one relative to the other, the milk container (2) being designed to force the locking member (5) towards the first position in a stretch of said sliding movement. 16. the apparatus (1) according to claim 3, wherein, in the coupled condition, the milk frothing device (3) is at the top of the milk container (2) and is positioned above a cover (23) of the milk container (2). 17. the apparatus (1) according to claim 2, wherein, when the milk frothing device (3) is mounted on the machine body, the milk container (2) is couplable to, or uncouplable from, the milk frothing device (3) with a substantially horizontal translating movement. 18. the apparatus (1) according to claim 2, wherein the milk frothing device (3) comprises a manifold (41) having a frothing chamber (40) that is connected to an air infeed duct (48), to a milk infeed duct (45) and to a nozzle (42) for the steam, wherein, in the mounted and coupled condition, the milk infeed duct (45) is in communication with the milk container (2) and the nozzle (42) is in communication with the boiler, whereby, in use, a flow of steam in the nozzle (42) creates a pressure drop that sucks milk and air into the frothing chamber (40), thereby obtaining mixing of milk with air and steam. 19. the apparatus (1) according to claim 3, wherein, when the milk frothing device (3) is mounted on the machine body, the milk container (2) is couplable to, or uncouplable from, the milk frothing device (3) with a substantially horizontal translating movement. 20. the apparatus (1) according to claim 3, wherein the milk frothing device (3) comprises a manifold (41) having a frothing chamber (40) that is connected to an air infeed duct (48), to a milk infeed duct (45) and to a nozzle (42) for the steam, wherein, in the mounted and coupled condition, the milk infeed duct (45) is in communication with the milk container (2) and the nozzle (42) is in communication with the boiler, whereby, in use, a flow of steam in the nozzle (42) creates a pressure drop that sucks milk and air into the frothing chamber (40), thereby obtaining mixing of milk with air and steam. (Results 6)

Search [SP]: [0001] this invention relates in general to the beverage making sector. in particular, this invention relates to an apparatus for making a beverage containing milk, for example a frothed milk or a cappuccino. [0002] there are prior art apparatuses equipped with a milk frothing device designed for mixing milk, steam and air to obtain frothed milk. [0003] in some prior art apparatuses, for example in the apparatus described in european patent no. ep1725151, there is a milk container equipped with a cover in which the milk frothing device is located. the milk container is removably mounted on the outside of the apparatus. in the mounted condition, a manifold body of the milk frothing device is engaged on a steam dispenser that projects from an outer face of the apparatus. therefore, the milk frothing device can receive steam from a boiler of the apparatus and suck milk from the container below. the container and its cover, with the milk frothing device incorporated in the latter, can be mounted on and removed from the apparatus simultaneously, as if they were a single body. [0004] one disadvantage of that prior art apparatus is linked to the risk that, during removal of the milk container, the user may be accidentally struck by a jet of steam coming from the steam dispenser which is left uncovered and pointing towards the user after removal of the container. [0005] in this context, the technical purpose that forms the basis of this invention is to provide an apparatus for making a beverage, in particular a beverage containing milk, in which that apparatus reduces the risk linked to said disadvantage or at least offers an alternative solution to the prior art apparatuses. [0006] the technical purpose specified and the aims indicated are substantially achieved by an apparatus for making a beverage according to claim 1. [0007] particular embodiments of this invention are defined in the corresponding dependent claims. [0008] according to one aspect of the solution proposed by this invention, the apparatus comprises a milk container and a milk frothing device which are both removably mountable on the outside of a machine body of the apparatus. in the mounted condition, the milk container is removable separately from the milk frothing device and, moreover, the apparatus comprises a locking member that is activated by the presence of the milk container, in order to prevent removal of the milk frothing device simultaneously with removal of the milk container. [0009] therefore, in an apparatus according to this invention, the milk container is removable in such a way that the milk frothing device is left in position. the milk frothing device is, in turn, removable, if necessary, only after the milk container has been removed. [0010] further features and the advantages of this invention are more apparent in the detailed description below, with reference to an example, non-limiting embodiment of an apparatus for making a beverage. reference will be made to the accompanying drawings, in which: [0011] fig. 1 is a perspective view of a portion of an apparatus according to this invention; [0012] fig. 2 is a front view of the portion of apparatus of fig. 1; [0013] fig. 3 is a top view of the portion of apparatus of fig. 1; [0014] fig. 4 is a perspective view of the portion of apparatus of fig. 1, in section according to a section plane iv-iv in fig. 2; [0015] fig. 5 is an enlarged side view of a detail of the sectional view of fig. 4, with some parts removed; [0016] fig. 6 is a perspective view of the portion of apparatus of fig. 1, in section according to a section plane vi-vi in fig. 2; [0017] fig. 7 is an enlarged side view of a detail of the portion of apparatus of fig. 1, in section according to a section plane vii-vii in fig. 2; [0018] fig. 8 is a perspective view of the portion of apparatus of fig. 1, in section according to a section plane viii-viii in fig. 3; [0019] fig. 9 is an enlarged side view of a detail of the portion of apparatus of fig. 1, in section according to a section plane ix-ix in fig. 3; [0020] fig. 10 is an enlarged front view of a detail of the portion of apparatus of fig. 1, in section according to a section plane x-x in fig. 3; [0021] fig. 11 is a perspective view of a milk container that is part of the apparatus of fig. 1; [0022] fig. 12 is a perspective sectional view of the milk container of fig. 11; [0023] fig. 13 is a side view of the milk container of fig. 11; [0024] fig. 14 is a perspective view of the portion of apparatus of fig. 1, with the milk container removed; [0025] fig. 15 is a front view of the portion of apparatus of fig. 14; [0026] fig.

16 is a perspective view of the portion of apparatus of fig. 14, in section according to a section plane xvi-xvi in fig. 15[0027] fig. 17 is an enlarged side view of a detail of the sectional view of fig. 16, with some parts removed[0028] fig. 18 is a perspective view of the portion of apparatus of fig. 14, in section according to a section plane xviii-xviii in fig. 15[0029] fig. 19 is an enlarged side view of a detail of the portion of apparatus of fig. 14, in section according to a section plane xix-xix in fig. 15[0030] fig. 20 is a perspective view of the portion of apparatus of fig. 14, in section according to a section plane corresponding to the plane viii-viii in fig. 3[0031] fig. 21 is an enlarged side view of a detail of the portion of apparatus of fig. 14, in section according to a section plane corresponding to the plane ix-ix in fig. 3[0032] an apparatus according to this invention is labelled with the reference numeral 1 and can be used for making a beverage containing milk, for example a frothed milk or a cappuccino. the whole apparatus 1 is not illustrated. instead, only a portion of it relevant for the purposes of this description is shown in the figures.[0033] the apparatus 1 comprises a machine body, of which only a portion of an outer wall 11 is shown in the figures. the machine body houses or contains a boiler for producing steam, in particular pressurised steam. the apparatus 1 also comprises a milk container 2 and a milk frothing device 3.[0034] the milk frothing device 3 includes a system for mixing milk with air and steam in order to obtain frothed milk, that is to say, foamy milk incorporating air bubbles. that mixing system can be implemented according to embodiments that in themselves are already known in the sector.[0035] in detail, the milk frothing device 3 comprises a box-shaped body 31 containing a milk frothing chamber 40. that frothing chamber 40 is made in a manifold 41 that is connected to an air feed duct 48, to a milk feed duct 45 and to a steam feed duct 35. in use, the steam feed duct 35 is in communication with the boiler of the apparatus 1 and the milk feed duct 45 is in communication with the milk container 2.[0036] in particular, a nozzle 42 for the steam is interposed between the steam duct 35 and the chamber 40. the nozzle 42 has a converging section which, when it receives a flow of pressurised steam, creates a local pressure drop such that it causes milk to be sucked from the container 2 through the duct 45 and air to be sucked from the outside environment through the duct 48. in the chamber 40 the milk, air and steam are mixed, thereby producing a frothed milk.[0037] the milk frothing device 3 also comprises a dispensing spout 33 that is connected to the chamber 40 by a respective duct 43 and is, therefore, designed to dispense the frothed milk produced in the chamber 40. the dispensing spout 33 extends laterally from the box-shaped body 31 and in particular, during use, can dispense frothed milk directly into a cup below.[0038] in the embodiment illustrated, the milk frothing device 3 also comprises a control selector or lever 38. the lever 38 rotates together with a hollow body 385 that forms an infeed for the flow of air through the duct 48. in detail, the lever 38 is shiftable between a normal operating position, corresponding to a flow of air suitable for suction and frothing of the milk, and a cleaning position, corresponding to activation of a washing cycle using water and/or steam for cleaning the chamber 40 and the dispensing spout 33. if necessary, the washing cycle may be performed when the milk container 2 is uncoupled from the milk frothing device 3, in order to avoid sucking in milk during cleaning. the lever 38 is also shiftable to a position in which it is disengageable from the box-shaped body 31 and is removable from it to facilitate cleaning of the milk frothing device 3.[0039] during use, the milk container 2 and the milk frothing device 3 are positioned on the outside of the machine body, in particular on an outer wall 11 that is facing a user during normal use of the apparatus 1. the outer wall 11 is provided with a seat 10 for receiving the milk frothing device 3, as well as the milk container 2. the milk frothing device 3 is removably mountable in the seat 10. in the embodiment illustrated, that seat 10 in particular is a hollow or a housing partly recessed in the outer wall 11.[0040] alternatively, the seat 10 may be a region of the outer wall 11 that is not hollowed out. in general, it shall be under (Results 6)

Search [SP]: apparatus for making a beverage, in particular for a beverage containing milk this disclosure relates to an apparatus (1) for making a beverage, in particular a beverage containing milk. the apparatus (1) comprises a machine body, a milk container (2) and a milk frothing device (3) for mixing milk with air and steam. the milk frothing device (3) is removably mountable in a seat (10) in an outer wall (11) of the machine body. the milk container (2) is removably coupleable to the milk frothing device (3). the apparatus (1) also comprises a locking member (5) for locking the milk frothing device (3) in the mounted condition. the milk container (2) interacts with the locking member (5) in such a way that, when the milk container (2) is coupled to the milk frothing device (3) in the mounted condition, the locking member (5) is active and prevents removal of the milk frothing device (3) from the seat (10), and in such a way that, when the milk container (2) is uncoupled from the milk frothing device (3), the locking member (5) may adopt the inactive condition for allowing removal of the milk frothing device (3) from the seat (10). therefore, the milk frothing device (3) and the milk container (2) in the coupled condition are not simultaneously removable from the machine body. (Results 0)

Search 2 AND 3 (Results 6)
5:

1) Family number: 60899062 (US2015335195A)

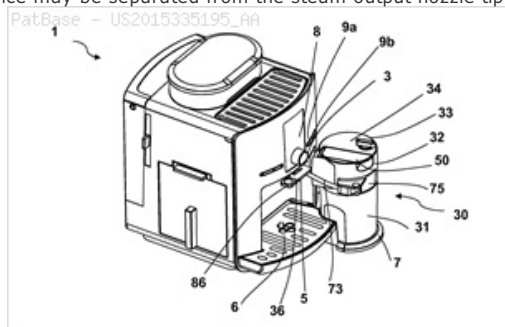
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Title: DEVICE TO PRODUCE MILK-BASED DRINKS WITH A CONNECTION SYSTEM AND A COFFEE MAKER CONTAINING SUCH A DEVICE

Abstract: Provided is a milk-based drink production device designed to work with a steam output nozzle tip of a coffee maker, where the device contains a steam input conduit. The device contains a connection system to the steam output nozzle tip which includes at least one mobile jaw that shifts between a connected position, in which a watertight connection is formed between the steam output nozzle tip and the steam input conduit and in which the device cannot be separated from the steam output nozzle tip, and a disconnected position in which the device may be separated from the steam output nozzle tip.

Classifications:

International (IPC 8-9): A47J31/30 A47J31/40 A47J31/41 A47J31/44 A47J31/58 A47J31/60 A47J31/12 (Advanced/Invention)
CPC: A47J31/4403 A47J31/4485 A47J31/4489
US: 99/293



Family:

Publication number	Publication date	Application number	Application date
CA2889680 AA	20151123	CA20152889680	20150427
CN105078257 A	20151125	CN201510264797	20150522
CN105078257 B	20190503	CN201510264797	20150522
EP2946706 A1	20151125	EP20150168042	20150518
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FR3021200 A1	20151127	FR20140054674	20140523
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US2015335195 AA	20151126	US20150718884	20150521
US10362895 BB	20190730	US20150718884	20150521

Priority:

FR20140054674 20140523

Probable Assignee: SEB SA

Assignee(s): (std): SEB AB ; SEB SA

Assignee(s): SEB S A ; BEAUDET OLIVIER ; DUPUY CHRISTIAN ; GUERIN CHRISTOPHE

Inventor(s): (std): BEAUDET OLIVIER ; DUPUY CHRISTIAN ; GUERIN CHRISTOPHE ; CHRISTOPHE GUERIN ; CHRISTIAN

DUPUY ; OLIVIER BEAUDET

Agent(s): GOUDREAU GAGE DUBUC; LAVERY DE BILLY LLP; BOURRIERES PATRICE; SEB DEVELOPPEMENT; WEBB LAW FIRM

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2) Family number: 66162178 (US2018353000A)

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Title: APPARATUS FOR MAKING A BEVERAGE, IN PARTICULAR FOR A BEVERAGE CONTAINING MILK

Abstract: This disclosure relates to an apparatus (1) for making a beverage, in particular a beverage containing milk. The apparatus (1) comprises a machine body, a milk container (2) and a milk frothing device (3) for mixing milk with air and steam. The milk frothing device (3) is removably mountable in a seat (10) in an outer wall (11) of the machine body. The milk container (2) is removably couplable to the milk frothing device (3). The apparatus (1) also comprises a locking member (5) for locking the milk frothing device (3) in the mounted condition. The milk container (2) interacts with the locking member (5) in such a way that, when the milk container (2) is coupled to the milk frothing device (3) in the mounted condition, the locking member (5) is active and prevents removal of the milk frothing device (3) from the seat (10), and in such a way that, when the milk container (2) is uncoupled from the milk frothing device (3), the locking member (5) may adopt the inactive condition for allowing removal of the milk frothing device (3) from the seat (10). Therefore, the milk frothing device (3) and the milk container (2) in the coupled condition are not simultaneously removable from the machine body.

Classifications:

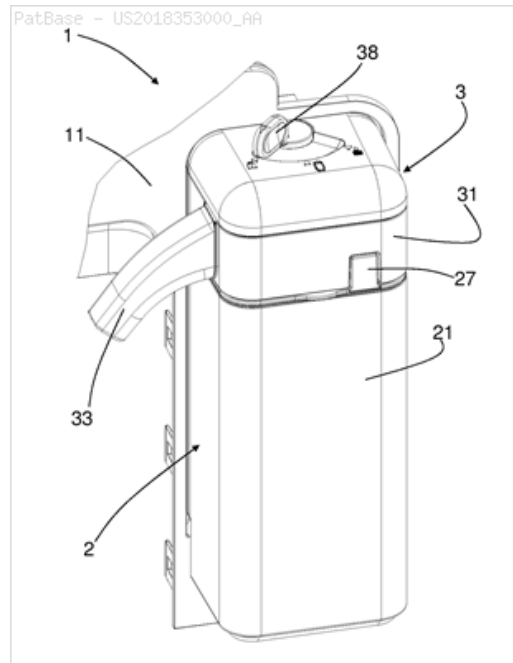
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A47J31/60 (Advanced/Invention)

International (IPC 1-7): A47J31/44

CPC: A47J31/46 A47J31/44 A47J31/4485 A47J31/4489

US: 1/1 99/293



Family:

Publication number	Publication date	Application number	Application date
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ITUB20159657 A1	20170617	IT2015UB09657	20151217
JP2018537234 T2	20181220	JP20180531369T	20161123
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MX2018007430 A1	20180815	MX20180007430	20161123
RU2700828 C1	20190923	RU20180126044	20161123
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WO17103709 A1	20170622	WO2016IB57055	20161123
ZA201803215 A	20190731	ZA20180003215	20161123

Priority:

IT20151000084746 20151217 IT2015UB09657 20151217 WO2016IB57055 20161123

Probable Assignee: CAFFITALY SYSTEM SPA

Assignee(s): (std): CAFFITALY SYSTEM S P A ; CAFFITALY SYSTEM SPA

Assignee(s): CHANINE VALERIY ; DIAMANTI MAURIZIO

Inventor(s): (std): CHANINE VALERIY ; DIAMANTI MAURIZIO ; MAURIZIO DIAMANTI ; VALERIY CHANINE

Agent(s): PATENT ATTORNEY SERVICES; CASSAN MACLEAN IP AGENCY INC; CAROLINA MERCEDES DAZA MONTALVO; PONCHIROLI SIMONE; IR YUSWO TIRTO WIDJOJO; YURIDICHESKAYA GORODISSKIJ I PARTNERY OOO FA; PONCHIROLI SIMONE ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: DEVICE FOR PRODUCING A MILK-BASED DRINK

Abstract: The device (1) for producing a milk-based drink comprises a steam or water dispenser (5) and a container (2) for the milk that is connected, directly or indirectly, to a collector body (3) that defines an inner recess (300) into which a connection pathway (401) to said dispenser, a milk suction pathway (7) present in the container and an air suction pathway (10) open, the container (2) being removably associated with the dispenser (5) so as to be able to be separated from it for conservation of the milk present in the container (2).

Classifications:

International (ipc 8-9): A23F3/00 A23F5/00 A23F5/24 A23L2/54 A47J31/00 A47J31/40 A47J31/41 A47J31/44 A47J31/60

B01F3/04 (Advanced/Invention);

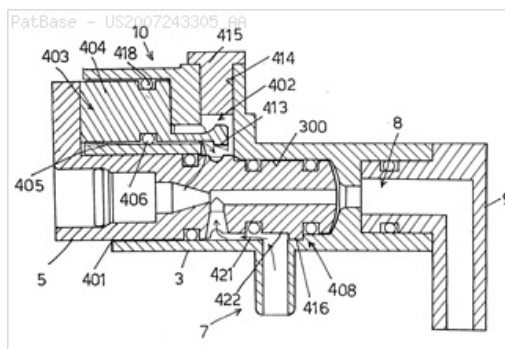
A23F5/00 A23F5/24 A47J31/40 A47J31/44 (Core/Invention)

International (ipc 1-7): A47J31/44

CPC: A47J31/4485 A47J31/60

European: A47J31/44D A47J31/60

US: 426/596 426/596P 99/293 99/293S 99/302.00R 99/302R 99/323.1 993/231



Family:

Publication number	Publication date	Application number	Application date
AT10885 U2	20091215	AT20090000513U	20090817
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Priority:

IT2004MI00777 20040421 EP20050755458 20050408 EP20080020408 20050408
WO2005EP03731 20050408 EP20090014048 20050408 EP20090008307 20050408

Probable Assignee: DE LONGHI SPA

Assignee(s): (std): DE LONGHI S P A ; DE LONGHI SPA ; LONGHI DE SPA ; LONGHI SPA DE ; LONGI S P A DE ; DELONGHI SPA ; MARCONI GIAN CARLO ; MARCONI GIAN C

Assignee(s): DE AND 39 LONGHI SPA ; DE'LONGHI SPA ; DE LONGI SPA ; DE LONGI S P A

Inventor(s): (std): MARCONI GIANCARLO ; MARKONI DZHAN KARLO ; CARLO MARCONI GIAN ; MARCONI GIAN CARLO ; MARCONI GIAN C ; MARCONI GIAN

Inventor(s): GIANCARLO MARCONI ; GIAN CARLO MARCONI

Agent(s): SPRUSON AND FERGUSON; RIDOUT AND MAYBEE LLP; BERESKIN AND PARR LLP SENCRL SRL; PATENTANWALTE MAGENBAUER AND KOLLEGEN PARTNERSCHAFT MBB; RAPISARDI MARIACRISTINA; ESPIELL EDUARDO MARIA; DIAZ JOAQUIN; KF ROSS PC; ANDREW

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KP KR KZ LC LI LK LR LS LT LU LV MA MC MD MG MK ML MN MR MW MX MZ NA NE NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW

4) Family number: 57559611 (US2016270589A)

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Title: A JUG FOR BEVERAGES AND BEVERAGE PRODUCING MACHINE COMPRISING SAID JUG

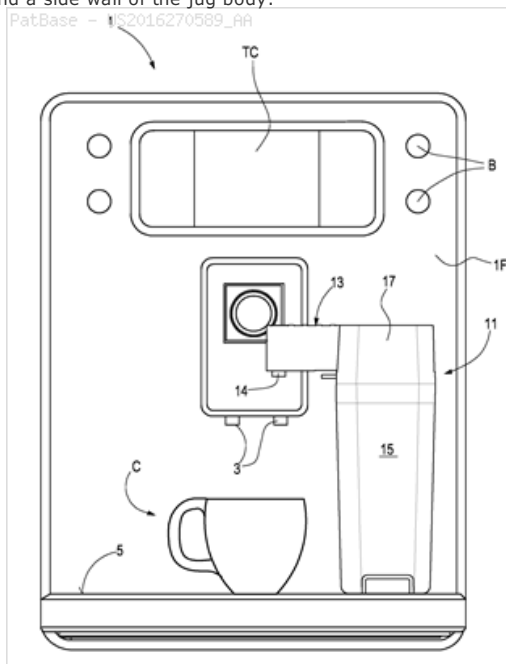
Abstract: The jug (11) comprises jug body (15) and a beverage frothing device (13) arranged on the jug. The beverage frothing device comprises a steam inlet (23, 25, 27), a beverage inlet (35, 35C), and a frothed beverage outlet (14). The frothing device is slidably arranged in a seat (19) and is movable between a retracted position and an extended position. In the extended position the frothed beverage outlet (14) projects beyond a side wall of the jug body.

Classifications:

International (IPC 8-9): A47J31/44 (Advanced/Invention)

CPC: A47J31/4485 A47J31/4489

US: 1/1 99/293



Family:

Publication number	Publication date	Application number	Application date
■ CN105050461 A	20151111	CN201480019554	20140401
■ CN105050461 B	20181225	CN201480019554	20140401
■ DE602014048158 D1	20190704	DE201460048158T	20140401
■ EP2994026 A1	20160316	EP20140718770	20140401
■ EP2994026 B1	20190612	EP20140718770	20140401
■ IN06767CN2015 A	20160701	IN2015CN06767	20151030
■ JP2016520347 T2	20160714	JP20160505911T	20140401
■ JP5944609 B1	20160705	JP20160505911T	20140401
■ RU2015146919 A	20170511	RU20150146919	20140401
■ RU2649263 C2	20180330	RU20150146919	20140401
■ US2016270589 AA	20160922	US20140777884	20140401
■ WO14162262 A1	20141009	WO2014IB60351	20140401

Priority:

EP20130162006 20130402 EP20140718770 20140401 WO2014IB60351 20140401

Probable Assignee: PHILIPS KONINKLL NV

Assignee(s): (std): KONINKL PHILIPS NV ; KONINKLEJKE FILIPS N V ; KONINKLEJKE FILIPS NV ; PHILIPS KONINKLL NV

Inventor(s): (std): MATTIOLI ROMEO ; TONELLI STEFANO

Agent(s): FREEKE ARNOLD; OOO YURIDICHESKAYA GORODISSKIY I PARTNER FA; COOPS PETER ET AL

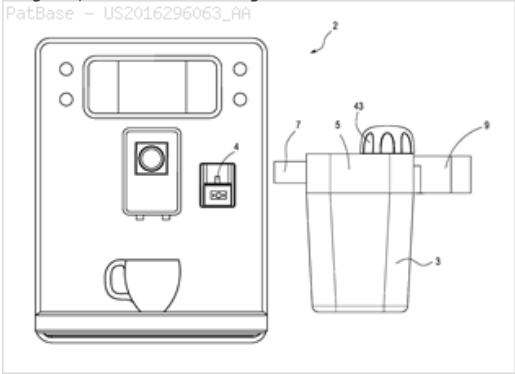
Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

5) Family number: 59415639 (US2016296063A) © PatBase

Title: BEVERAGE FROTHING DEVICE AND JUG COMPRISING SAID DEVICE

Abstract: The beverage frothing device comprises a first beverage passageway comprised of: a first beverage suction chamber (13) in communication with a first beverage suction duct (17) and a first steam inlet duct (21), wherein the first beverage suction duct is configured for communication with a beverage container; an air inlet port (27A); a frothing arrangement for mixing beverage delivered through the first beverage suction duct (17) with air from the air inlet port (27A) and producing frothed beverage; a first beverage dispensing spout (31), wherefrom frothed beverage is dispensed. The beverage frothing device further comprises a second beverage passageway comprised of a second beverage suction chamber (15) in communication with a second beverage suction duct (19) and a second steam inlet duct (23), wherein the second beverage suction duct is configured for communication with the beverage container. A steam feeding arrangement is further provided, which is configured for dispensing steam selectively to the first steam delivery duct (21), for producing frothed beverage, or to the second steam delivery duct (23) for producing hot, unfrothed beverage.

Classifications:
International (IPC 8-9): A47J31/44 A47J31/60 (Advanced/Invention)
CPC: A47J31/4489 A47J31/4485 A47J31/60
US: 1/1 99/293



Family:

Publication number	Publication date	Application number	Application date
CN105992538 A	20161005	CN201480065079	20141125
CN105992538 B	20190222	CN201480065079	20141125
DE602014017014 D1	20171221	DE201460017014T	20141125
EP3073874 A1	20161005	EP20140803100	20141125
EP3073874 B1	20171108	EP20140803100	20141125
JP2017501769 T2	20170119	JP20160534989T	20141125
JP6336076 B2	20180606	JP20160534989T	20141125
RU2016125319 A	20180110	RU20160125319	20141125
RU2667706 C1	20180924	RU20160125319	20141125
US2016296063 AA	20161013	US20140037369	20141125
US10092131 BB	20181009	US20140037369	20141125
WO15078858 A1	20150604	WO2014EP75529	20141125

Priority:
EP20130194776 20131128 EP20140803100 20141125 WO2014EP75529 20141125

Probable Assignee: PHILIPS KONINKLL NV

Assignee(s): (std): KONINKL PHILIPS NV ; KONINKLEJKE FILIPS NV ; PHILIPS KONINKLL NV

Assignee(s): PHILIPS N V KONINKLL ; KONINKLEJKE FILIPS N V

Inventor(s): (std): SANTINI MARCO ; FERRARO ANDREA ; SANTINI MARKO

Agent(s): KRUK ARNO; OHNUKI SHINSUKE; ITOH TADAHIKO; ITOH TADASHIGE; PATENTIKA; COOPS PETER ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

6) Family number: 74943934 (WO19129515A1) © PatBase

Title: A MIXING APPARATUS HAVING A SEAL

Abstract: The invention provides a mixing apparatus. The mixing apparatus includes a first container, wherein the first container comprises: a first port; and a mixing chamber. The mixing apparatus further includes a second container, wherein the second container is adapted to receive the first container, and a seal disposed between the first container and the second container. In addition, the mixing apparatus includes a channel between the first port and the mixing chamber, wherein the channel is defined by the seal and the first container. In some examples, the seal includes: a first seal portion; and a transition seal portion, the transition portion comprising: a seal split; and an air intake channel.

Classifications:
International (IPC 8-9): A47J31/44 (Advanced/Invention)
CPC: A47J31/4485

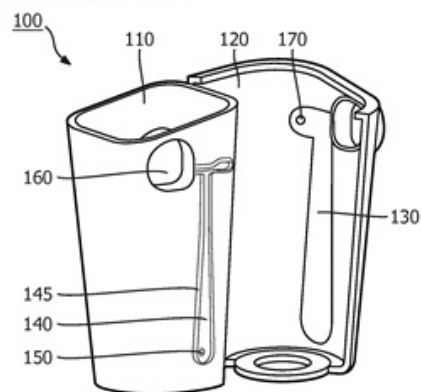


FIG. 1A

Family:

Publication number	Publication date	Application number	Application date
EP3505023 A1	20190703	EP20170210911	20171228
WO19129515 A1	20190704	WO2018EP85096	20181217

Priority:

EP20170210911 20171228

Probable Assignee: PHILIPS KONINKLL NV**Assignee(s):** (std): PHILIPS KONINKLL NV**Inventor(s):** (std): ROUMEN BRITT ; ZWART BART JAN ; TIBBE TIM GERARD**Agent(s):** DE HAAN POUL ERIK; DE VRIES JANNA ET AL

Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DJ DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IR IS IT JO JP KE KG KH KM KN KP KR KW KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SA SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW